

EXPRESS MAIL CERTIFICATE OF MAILING (37 CFR 1.10)**Express Mail No.: EV332070244US**

Docket No.

71044-014

Applicant(s):

Heizer, Charles K.

Serial No.

TBA

Filing Date

Herewith

Examiner

TBD

Group Art

TBD

Title:

GAPLESS SCREW ROTOR DEVICE17497 U.S. PTO
10/810513

032704

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS

Transmitted herewith is:

- ☒ UTILITY PATENT APPLICATION TRANSMITTAL
- ☒ Specification (69 pgs)
- ☒ Drawings (17 pgs)
- ☒ Declaration/Power of Attorney
- ☒ 37 CFR Statement 3.73(b)
- ☒ Assignment and Recordation Form Cover Sheet
- ☒ Petition to Make Special Due to Applicant's Age and Request for Applicant Initiated Interview
- ☒ Declaration of Charles K. Heizer
- ☒ Transmittal of Information Disclosure Statement, Form 1449 and References
- ☐ Application Data Sheet
- ☒ Check in the amount of \$1,162.00 fees for Large entity patent application and Assignment Recordation fee. The balance of \$1,612.00 for the application fee, should be charged to the deposit account.
- ☒ Postcard

Husch & Eppenberger, LLC
190 Carondelet Plaza
St. Louis, MO 63105
314-480-1500
314-480-1505 FAX

Customer No. 029493

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MAIL STOP: PATENT APPLICATION, Commissioner for
Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Express Mail No.: EV332070244US


Signature of Person Mailing Correspondence

Dennis J.M. Donahue, III

Typed or Printed Name of Person Mailing Correspondence

P16B/REV01

Please type a plus sign (+) inside this box → ☐

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UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No. 71044-014	
	First Inventor Heizer, Charles K.	
	Title	GAPLESS SCREW ROTOR DEVICE
	Express Mail No. EV 332070244 US	

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: MAIL STOP PATENT APPLICATION Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450
1. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. 2. <input checked="" type="checkbox"/> Specification [Total Pages 69] (preferred arrangement set forth below) <input checked="" type="checkbox"/> Descriptive title of the invention <input checked="" type="checkbox"/> Cross Reference to Related Applications <input type="checkbox"/> Statement Regarding Fed sponsored R & D <input type="checkbox"/> Reference to sequence listing, a table, or a computer program listing appendix <input checked="" type="checkbox"/> Background of the Invention <input checked="" type="checkbox"/> Brief Summary of the Invention <input checked="" type="checkbox"/> Brief Description of the Drawings (if filed) <input checked="" type="checkbox"/> Detailed Description <input checked="" type="checkbox"/> Claim(s) <input checked="" type="checkbox"/> Abstract of the Disclosure 3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 17] 4. Oath or Declaration [Total Pages 2] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Unexecuted c. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 17 completed) i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	5. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 7. <input checked="" type="checkbox"/> Assignment and Recordation Form Cover Sheet 8. <input checked="" type="checkbox"/> 37 CFR 3.73(b) Statement 9. <input checked="" type="checkbox"/> Power of Attorney 10. <input checked="" type="checkbox"/> Transmittal of Information Disclosure Statement, Form 1449 11. <input checked="" type="checkbox"/> Petition to Make Special Due to Applicant's Age & Request for Applicant Initiated Interview 12. <input checked="" type="checkbox"/> Declaration of Charles K. Heizer 13. <input checked="" type="checkbox"/> Return Receipt Postcard 14. <input checked="" type="checkbox"/> Certificate of Express Mailing 15. <input type="checkbox"/> English Translation Document 16. <input type="checkbox"/> Certified Copy of Priority Document 17. <input type="checkbox"/> Non Publication Request under 35 U.S.C. 122 18. <input checked="" type="checkbox"/> Check 19. <input type="checkbox"/> Other: _____

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,
or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: 10/283,421
Prior application information: Examiner Trieu, Theresa Group Art Unit: 3748
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is
considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can
only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	029493 (Insert Customer No. or Attach bar code label here)	or	<input type="checkbox"/> Correspondence address below
Name Dennis J.M. Donahue, III, 43,591			
Address Husch & Eppenberger, LLC 190 Carondelet Plaza			
City	St. Louis	State	MO
Country	U.S.A.	Telephone	314-480-1500
		Fax	314-480-1505

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required
to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS
ADDRESS. SEND TO: ASSISTANT COMMISSIONER for Patents, Box Patent Application, Washington, D.C. 20231

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PATENT APPLICATION FEE DETERMINATION RECORD				Application or Docket Number 71044-014			
CLAIMS AS FILED- PART I				SMALL ENTITY		OR	OTHER THAN SMALL ENTITY
	(Column 1)	(Column 2)		RATE	FEE		RATE
FOR	NUMBER FILED	NUMBER EXTRA					
BASIC FEE (37 CFR 1.16(a))					\$0.00		\$770.00
TOTAL CLAIMS (37 CFR 1.16(c))	110 minus 20 =	90		x \$9.00 =	\$ 0.00	OR	x \$18.00 = \$1,620.00
INDEPENDENT CLAIMS (37 CFR 1.16(b))	7 minus 3 =	4		x \$43.00 =	\$ 0.00	OR	x \$86.00 = \$ 344.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(d))				+ \$145.00 =		OR	+ \$290.00 =
* If the difference in column 1 is less than zero, enter "0" in column 2				TOTAL	\$ 375.00	OR	TOTAL \$2,734.00

- ☒ A check in the amount of \$ 1,162.00 ²¹⁷⁷ ~~(\$1,122.00 Patent application fee plus \$40.00 assignment recordation)~~ is attached.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 08-3460 as described below. A duplicate copy of this sheet is enclosed.
- ☒ Charge the amount of \$1,612.00
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.


Signature

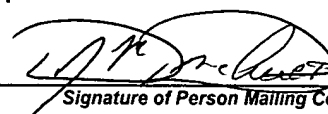
Dated: 3/26/04

Dennis J.M. Donahue, III, 43,591
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Express Mail No. EV 332070244 US


Signature of Person Mailing Correspondence

Dennis J.M. Donahue, III

Typed or Printed Name of Person Mailing Correspondence

Interview Requested Prior to First Office Action in Continuation Application

Application No.: TBD First Named Applicant: HEIZER, Charles K.
 Examiner: TBD Art Unit: TBD Status of Application: Filed Herewith

Applicant hereby requests an interview prior to the first office action for the above identified continuation application and submits that this request is made in a timely manner in accordance with MPEP 713.02.

Tentative Participants:

(1) Dennis JM Donahue III 43,591 (2) Charles K. Heizer, Inventor

(3) Assigned Patent Examiner (4) _____

Proposed Date of Interview: Before First Office Action Proposed Time: 10:00 (AM/PM)

Type of Interview Requested:

(1) ☐ Telephonic (2) ☒ Personal (3) ☐ Video Conference

Exhibit To Be Shown or Demonstrated: ☒ YES ☐ NO

If yes, provide brief description: A prototype screw rotor will be shown and its operation will be demonstrated.

Issues To Be Discussed

Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Continuation Sheet Attached

Brief Description of Arguments to be Presented:

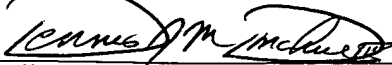
The present invention solves a technical problem for screw rotor devices that had previously been thought to be impossible to solve. In particular, many prior art inventions teach ways to reduce gaps and leaks in screw rotor devices. Most prior art screw rotors suffer from the same problem, a blow hole gap, the only exception being a single-pitch screw rotor, also invented by the present inventor. The present invention eliminates the blow hole gap for single-pitch and multiple pitch screw rotors.

An interview was conducted on the above-identified application on _____.

NOTE:

This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP § 713.01).

This application will not be delayed from issue because of applicant's failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.

 43,591
 (Applicant's Representative Signature)

 (Examiner/SPE Signature)